

Message

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**From:** Beck, Nancy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=168ECB5184AC44DE95A913297F353745-BECK, NANCY]  
**Sent:** 5/29/2019 8:08:04 PM  
**To:** Hanley, Mary [Hanley.Mary@epa.gov]; Dunn, Alexandra [dunn.alexandra@epa.gov]  
**CC:** Bertrand, Charlotte [Bertrand.Charlotte@epa.gov]; Tyler, Tom [Tyler.Tom@epa.gov]  
**Subject:** RE: HEC Followup Question on PFAS Subgroups

See edits:

**Deliberative Process / Ex. 5**

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**From:** Hanley, Mary  
**Sent:** Wednesday, May 29, 2019 11:23 AM  
**To:** Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>; Dunn, Alexandra <[dunn.alexandra@epa.gov](mailto:dunn.alexandra@epa.gov)>  
**Cc:** Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>; Tyler, Tom <[Tyler.Tom@epa.gov](mailto:Tyler.Tom@epa.gov)>  
**Subject:** RE: HEC Followup Question on PFAS Subgroups

Ok. Tala's response to your question: Probably a few at present, but certainly not all the hundreds people are alleging are out there...that is why it is in the medium- and long-term parts of the Action Plan. The Question: Do we have enough information on the different categories of PFAS to do TEF or would TEF be an approach we could do in a few years when more research is complete?

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**From:** Beck, Nancy  
**Sent:** Wednesday, May 29, 2019 11:20 AM  
**To:** Hanley, Mary <[Hanley.Mary@epa.gov](mailto:Hanley.Mary@epa.gov)>; Dunn, Alexandra <[dunn.alexandra@epa.gov](mailto:dunn.alexandra@epa.gov)>  
**Cc:** Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>; Tyler, Tom <[Tyler.Tom@epa.gov](mailto:Tyler.Tom@epa.gov)>  
**Subject:** RE: HEC Followup Question on PFAS Subgroups

I think we need to say more about the TEFs. I can add some language.

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**From:** Hanley, Mary  
**Sent:** Wednesday, May 29, 2019 11:17 AM  
**To:** Dunn, Alexandra <[dunn.alexandra@epa.gov](mailto:dunn.alexandra@epa.gov)>; Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>  
**Cc:** Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>; Tyler, Tom <[Tyler.Tom@epa.gov](mailto:Tyler.Tom@epa.gov)>  
**Subject:** RE: HEC Followup Question on PFAS Subgroups

Hi. With ORD inputs here is the revised piece.

## Ongoing EPA Efforts

As part of the PFAS Action Plan, EPA is conducting research, including on methods using high throughput toxicity testing and new approach methods (NAMs) to make inferences about the toxicity of PFAS chemicals where limited data exist, and for PFAS mixtures. This research is designed to gather the types of data that facilitate grouping of PFAS based on robust scientific data and to understand relative potency among members of PFAS subgroups (i.e., which is the basis for developing TEFs). The research may also inform grouping chemicals, e.g. by identifying PFAS chemical structures which cause similar effects or activate similar pathways.

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**From:** Dunn, Alexandra  
**Sent:** Wednesday, May 29, 2019 11:15 AM  
**To:** Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>; Hanley, Mary <[Hanley.Mary@epa.gov](mailto:Hanley.Mary@epa.gov)>  
**Cc:** Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>; Tyler, Tom <[Tyler.Tom@epa.gov](mailto:Tyler.Tom@epa.gov)>  
**Subject:** RE: HEC Followup Question on PFAS Subgroups

I agree – I think ORD needs to help answer this question.

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**From:** Beck, Nancy  
**Sent:** Wednesday, May 29, 2019 10:30 AM  
**To:** Hanley, Mary <[Hanley.Mary@epa.gov](mailto:Hanley.Mary@epa.gov)>  
**Cc:** Dunn, Alexandra <[dunn.alexandra@epa.gov](mailto:dunn.alexandra@epa.gov)>; Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>; Tyler, Tom <[Tyler.Tom@epa.gov](mailto:Tyler.Tom@epa.gov)>  
**Subject:** Re: HEC Followup Question on PFAS Subgroups

Do we have enough information on the different categories of PFAS to do TEF or would TEF be an approach we could do in a few years when more research is complete?

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On May 29, 2019, at 10:28 AM, Hanley, Mary <[Hanley.Mary@epa.gov](mailto:Hanley.Mary@epa.gov)> wrote:

Hi. Here are Tala's proposed responses:

# Deliberative Process / Ex. 5

# Deliberative Process / Ex. 5

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**From:** Hanley, Mary

**Sent:** Tuesday, May 28, 2019 9:59 PM

**To:** Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>

**Cc:** Dunn, Alexandra <[dunn.alexandra@epa.gov](mailto:dunn.alexandra@epa.gov)>; Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>;  
Tyler, Tom <[Tyler.Tom@epa.gov](mailto:Tyler.Tom@epa.gov)>

**Subject:** Re: HEC Followup Question on PFAS Subgroups

Hi. I have asked OPPT this evening for a draft response that would be the basis of their responding via a call.  
M

Sent from my iPhone

On May 28, 2019, at 5:49 PM, Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)> wrote:

## **Deliberative Process / Ex. 5**

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**From:** Hanley, Mary  
**Sent:** Tuesday, May 28, 2019 1:40 PM  
**To:** Dunn, Alexandra <[dunn.alexandra@epa.gov](mailto:dunn.alexandra@epa.gov)>; Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>; Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>  
**Cc:** Tyler, Tom <[Tyler.Tom@epa.gov](mailto:Tyler.Tom@epa.gov)>  
**Subject:** FW: HEC Followup Question on PFAS Subgroups

Flagging for awareness.

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**From:** Kaiser, Sven-Erik  
**Sent:** Tuesday, May 28, 2019 1:32 PM  
**To:** Keller, Kaitlin <[keller.kaitlin@epa.gov](mailto:keller.kaitlin@epa.gov)>; Hanley, Mary <[Hanley.Mary@epa.gov](mailto:Hanley.Mary@epa.gov)>; Scheifele, Hans <[Scheifele.Hans@epa.gov](mailto:Scheifele.Hans@epa.gov)>; Pierce, Alison <[Pierce.Alison@epa.gov](mailto:Pierce.Alison@epa.gov)>; Henry, Tala <[Henry.Tala@epa.gov](mailto:Henry.Tala@epa.gov)>; Skane, Elizabeth <[Skane.Elizabeth@epa.gov](mailto:Skane.Elizabeth@epa.gov)>; Hartman, Mark <[Hartman.Mark@epa.gov](mailto:Hartman.Mark@epa.gov)>  
**Subject:** RE: HEC Followup Question on PFAS Subgroups

PFAS classification Team – In addition to the highlighted question below, Jerry Couri with House Energy and Commerce asks how feasible are the creation of toxicity equivalency factors for PFAS subgroups? Please let me know if prefer answering in writing or with a call, and if a call, availability this week? Thanks, Sven

Sven-Erik Kaiser  
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**From:** Kaiser, Sven-Erik  
**Sent:** Friday, May 24, 2019 1:56 PM  
**To:** Keller, Kaitlin <[keller.kaitlin@epa.gov](mailto:keller.kaitlin@epa.gov)>; Hanley, Mary <[Hanley.Mary@epa.gov](mailto:Hanley.Mary@epa.gov)>; Scheifele, Hans <[Scheifele.Hans@epa.gov](mailto:Scheifele.Hans@epa.gov)>; Pierce, Alison <[Pierce.Alison@epa.gov](mailto:Pierce.Alison@epa.gov)>; Henry, Tala <[Henry.Tala@epa.gov](mailto:Henry.Tala@epa.gov)>; Skane, Elizabeth <[Skane.Elizabeth@epa.gov](mailto:Skane.Elizabeth@epa.gov)>  
**Subject:** HEC Followup Question on PFAS Subgroups

TSCA PFAS Team – Thanks for the briefing call earlier in the week. Jerry Couri followed up with the question below about PFAS subclasses. Please take a look and let me know our response. Best,  
Sven

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**From:** Couri, Jerry <[JerryCouri@mail.house.gov](mailto:JerryCouri@mail.house.gov)>  
**Sent:** Thursday, May 23, 2019 11:14 AM  
**To:** Kaiser, Sven-Erik <[Kaiser.Sven-Erik@epa.gov](mailto:Kaiser.Sven-Erik@epa.gov)>  
**Subject:** PFAS Subgroups

Sven:

Following up from the conversation the other day, can PFAS chemicals be divided into subclasses for review based on chemical structure, physical and chemical properties, and predicted biologic activity? Would this make sense for the Agency's purposes?

■ Jerry

**Gerald S. Couri**

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